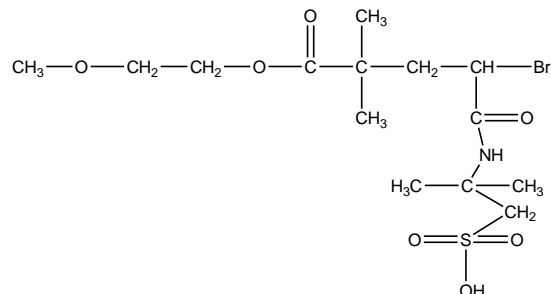


Sample Name:

**Poly(ethylene oxide -b-2-(acrylamido)2-methyl propane sulfonic acid**

Sample #: **P41395-EOAMPS**

**Structure:**



**Composition:**

Mn × 10 <sup>3</sup> PEO-b-PAMPS	PDI
6.0-b-3.5	1.2

**Synthesis Procedure:**

The polymer is prepared by controlled radical process.

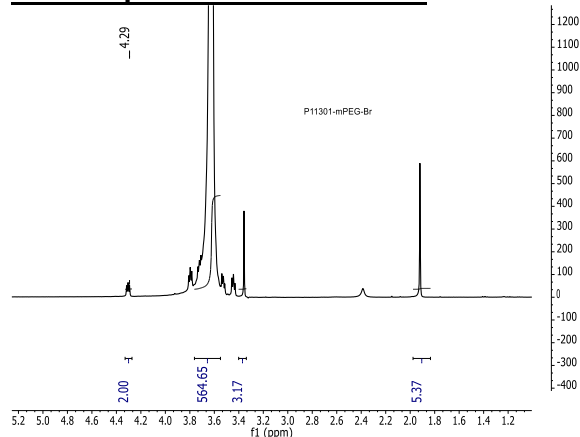
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) in aqueous phase using 0.05 M CH<sub>3</sub>COOH and CH<sub>3</sub>CONa in H<sub>2</sub>O and <sup>1</sup>H NMR.

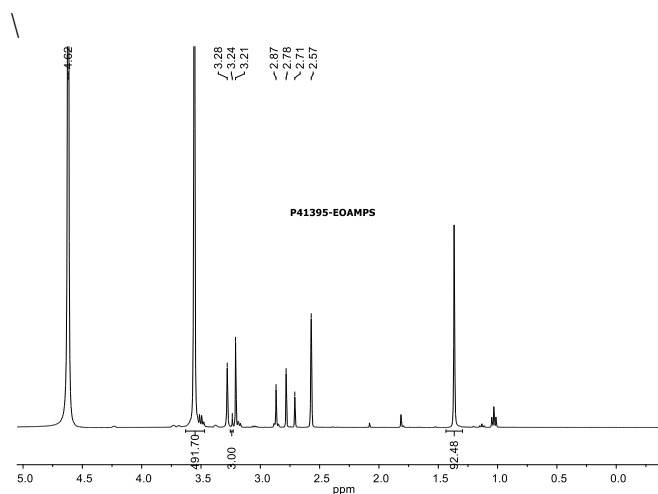
**Solubility:**

The polymer is soluble in water.

**HNMR spectrum of the PEG-Br:**

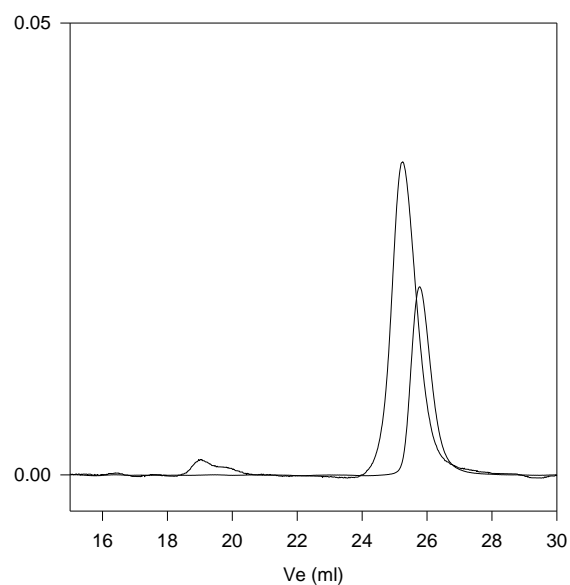


**H-NMR Spectrum of the block copolymer (EO-AMPS) run in D<sub>2</sub>O**



**SEC of the block copolymer:**

**P41395-EOAMPS**



Size exclusion chromatography:

— Poly(ethylene oxide), M<sub>n</sub>=6000, M<sub>w</sub>=6500, PI=1.07

— Block Copolymer PEO(6000)-b-AMPS(3,500), PI=1.2  
Composition from <sup>1</sup>H NMR